

Form PTO-1449		U.S. Department of Commerce Patent and Trademark Office		Atty. Docket No. P23706		Serial No. 10/646,759	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)				Applicant Hiroshi NOMURA			
				Filing Date August 25, 2003		Group 2873	

PATENT DOCUMENTS									
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE		
(12)		4 5 2 5 0 5 0	06/25/85	OHASHI					
		4 6 4 3 5 5 5	02/17/87	WAKABAYASHI					
		4 7 2 1 9 7 2	01/26/88	WAKABAYASHI					
		4 7 9 2 8 2 2	12/20/88	AKIYAMA et al.					
		5 8 1 8 6 4 7	10/06/98	NISHIO et al.					
		6 0 3 1 9 9 8	02/29/00	SHONO					
		4 4 5 1 1 2 9	05/29/84	IKARI et al.					
		4 6 4 3 5 5 4	02/17/87	OGAWA					
		4 7 7 1 3 0 3	09/13/88	MATSUMOYO et al.					
		4 8 8 7 1 0 7	12/12/89	NAKAMURA et al.					
		5 1 3 6 3 2 4	08/04/92	TSUBOI et al.					
		5 7 6 5 0 4 9	06/09/98	HASE et al.					
		5 8 3 2 3 2 6	11/03/98	TANAKA					
(12)		6 3 6 6 2 2 3	04/02/02	SHONO et al.					

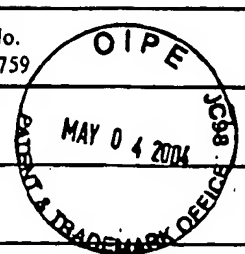
FOREIGN PATENT DOCUMENTS									
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO		
(12)		5 8 1 4 5 9 3 0	08/31/83	JAPAN					
		6 1 - 6 9 0 0 2	04/09/86	JAPAN					
		6 1 2 7 0 7 3 7	12/01/86	JAPAN					
		6 3 1 4 9 6 2 9	06/22/88	JAPAN					
		6 4 - 3 4 6 2 3	03/02/89	JAPAN			X		
		6 - 1 8 7 7 7	01/28/94	JAPAN			X		
(12)		7 - 1 9 1 2 4 9	07/28/95	JAPAN					
		1 1 1 0 9 2 0 3	04/23/99	JAPAN					

JAPAN OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)									

EXAMINER <u>P. Gray</u>	DATE CONSIDERED <u>9/14/04</u>
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\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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U.S. PATENT DOCUMENTS												
EXAMINER INITIAL	YEAR	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE					
KOS	2004	/ 0 0 4 2 0 9 5	03/04/04	NOMURA								
	2004	/ 0 0 4 2 0 9 3	03/04/04	NOMURA								
	2004	/ 0 0 6 2 5 3 6	04/01/04	NOMURA								
	2004	/ 0 0 5 1 9 6 8	03/18/04	NOMURA								
	2004	/ 0 0 5 1 9 7 0	03/18/04	NOMURA								
	2004	/ 0 0 6 2 5 3 7	04/01/04	NOMURA								
	2004	/ 0 0 5 1 9 7 2	03/18/04	NOMURA								
	2004	/ 0 0 4 2 0 9 1	03/04/04	NOMURA								
	2004	/ 0 0 4 2 0 8 9	03/04/04	NOMURA								
	2004	/ 0 0 5 1 9 7 1	03/18/04	NOMURA								
	2004	/ 0 0 4 2 7 7 7	03/04/04	NOMURA								
	2004	/ 0 0 4 2 7 7 8	03/04/04	NOMURA								
	2004	/ 0 0 5 1 9 6 9	03/18/04	NOMURA								
	2004	/ 0 0 5 1 9 6 7	03/18/04	NOMURA								
	2004	/ 0 0 4 2 7 7 5	03/04/04	NOMURA								
	2004	/ 0 0 4 2 0 9 6	03/04/04	NOMURA								
	2004	/ 0 0 4 2 0 9 0	03/04/04	NOMURA								
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	2004	/ 0 0 5 1 9 8 1	03/18/04	NOMURA								
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6		3 6 6 3 2 3	04/02/02	SHONO								
6		1 1 5 1 9 0	09/05/00	HIRAI								
6		0 6 4 5 3 3	05/16/00	KENIN et al.								
2003		/ 0 0 8 1 3 2 5	05/01/03	NOMURA et al.								
2001		/ 0 0 2 4 5 7 3	09/27/01	NOMURA et al.								
2002		/ 0 1 3 5 9 0 0	09/26/02	NOMURA et al.								
6	0 7 5 6 5 5	06/13/00	FUNAHASHI									

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<b>U.S. PATENT DOCUMENTS</b>																					
EXAMINER INITIAL	YEAR	/	0	1	2	3	4	5	6	7	8	9	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE				
	2002	/	0					1	3	5		9	09/26/02	NOMURA et al.							
	2003	/	0					0	8	1		3	05/01/03	NOMURA et al.							
	2002	/	0					1	3	5		8	09/26/03	NOMURA et al.							
								6	0	5	5	1	04/25/00	NOMURA et al.							
								6	2	0	4	9	03/20/01	IWASA							
								5	4	3	0	5	07/04/95	UZHIE et al.							
	2003	/	0					0	8	1		9	05/01/03	NOMURA et al.							
	2001	/	0					0	1	9		4	09/06/01	NOMURA et al.							
								4	9	9	3	8	02/19/91	YAMAZAKI et al.							
								5	8	1	8	6	10/06/98	NISHIO et al.							
								5	7	3	1	9	03/24/98	IMANARI							
								5	7	3	9	9	04/14/98	ASAKURA et al.							
	2003	/	0					1	5	6		8	08/21/03	NOMURA et al.							
								5	5	8	7	7	12/24/96	KATAYAMA et al.							
								6	0	5	2	5	04/18/00	UNO							
								5	2	2	3	8	06/29/93	TSUBOI							
								5	0	8	6	3	02/04/92	TANAKA et al.							
								5	4	9	9	1	03/12/96	SAKAMOTO et al.							
								6	0	6	9	7	05/30/00	FUJII et al.							
								6	3	2	4	0	11/27/01	TAKANASHI et al.							
							5	4	8	5	3	01/16/96	NOMURA et al.								
EXAMINER										D. Gray								DATE CONSIDERED		9/14/04	

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<b>FOREIGN PATENT DOCUMENTS</b>															
		DOCUMENT NUMBER				DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO					
		58	-	1	0	7	0	8	01/21/83	JAPAN					
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		2	2	6	2	3	5	6	06/16/93	UNITED KINGDOM					
	2003	-	2	0	7	7	0	9	07/25/03	JAPAN					
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		2	3	4	4	6	6	2	06/14/00	UNITED KINGDOM					
		2	2	6	1	2	9	8	05/12/93	UNITED KINGDOM					
	2002	-	2	7	7	7	1	9	09/25/02	JAPAN					
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		7	-	2	8	8	7	2	4	10/31/95	JAPAN			X	
	<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>														
	1	English Language Abstract of JP 58-10708.													
	2	English Language Abstract of JP 2003-207709.													
	3	English Language Abstract of JP 2002-277719.													
	4	English Language Abstract of JP 10-282394.													
	5	English Language Abstract of JP 58-162914.													
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